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AVERAGE AND PROBABILITY.

77. **Proposed by J. O. MAHONEY, B. E., M. Sc., Professor of Mathematics and Science, Cooper Training School, Carthage, Tex.; and ELMER SCHUYLER, Annapolis, Md.**

A and B are two inaccurate arithmeticians whose chance of solving a given question correctly is 1/8 and 1/12 respectively; if they obtain the same result, and if it is 1000 to 1 against their making the same mistake, find the chance that the result is correct. [*From Hall and Knight's Algebra.*]

78. **Proposed by CHAS. E. MYERS, Canton, O.**

Two witnesses, A and B, both make the statement that an event happened in a particular way (two ways being possible). Find the probability of the truth of the statement.

79. **Proposed by the late ENOCH BEERY SEITZ.**

Two equal spheres touch each other externally. If a point be taken at random within each sphere, show that (1) the chance that the distance between the points is less than the diameter of either sphere is 13/35, and (2) the average distance between them is $11/5r$. [This is Problem 5835, *Educational Times*, of London.]

⁂ Solutions of these problems should be sent to B. F. Finkel not later than Sept. 10.

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BOOKS AND PERIODICALS.

Bibliography of American Arithmetics. By J. M. Greenwood, Superintendent of Schools, Kansas City, Mo., and Artemas Martin, A. M., Ph.D., LL. D., Geodetic Survey Office, Washington, D. C. Issued by the National Bureau of Education.

This is a very complete bibliography of the Arithmetics published in this country from the earliest time down to the present. Not only the names of the book, the author and the publishers are given, but also a brief description of each book. B. F. F.

A Primer of the Calculus. By E. Sherman Gould, Member American Society of Civil Engineers. Second edition, revised and enlarged. 16mo. Cloth, 122 pages. Price, 50 cents. New York: D. Van Nostrand Company.

This work is a development of the infinitesimal method of the calculus. It is restricted in its treatment to the absolute rudiments of the science, being intended for practical use rather than for class-room work. The favorable reception of the first edition has made it necessary to bring out a second edition which the author has somewhat enlarged and improved. B. F. F.

The Ranger. An Instrument Invented and Patented by Francis J. Bayldon, Extra Master, and A. Huddart Armstrong, Engineer, for the use of Seamen while Navigating their Vessels off the Land. S. E. Lees, Printer and Stationer, 81 Clarence Street, Sydney, Australia.

In this pamphlet of 16 pages, is described 'The Ranger," an instrument for measuring triangles, that at once shows the value of the sides and angles of any triangle laid off on it, without the least calculation being necessary. The instrument is specially adapted to the use of seamen when in sight of land. It is very simple in construction and accurate in its results. B. F. F.